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Legal Department, DL429  
Intellectual Property Administration  
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PATENT APPLICATION  
ATTORNEY DOCKET NO. 10003813-1

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): BARTH ET. AL.

Serial No.: NEW FILING

Examiner: UNKNOWN

Filing Date: 10/17/01

Group Art Unit:

Title: EXTENSIBLE SPIRAL FOR FLEX CIRCUIT

#2  
D. Miller  
4/1/02  
IDS  
J1040 U.S. PTO  
09/981840  
10/17/01

COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 Processing fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e), and  
☐ a \$180.00 processing fee under 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account **50-1078** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **50-1078** pursuant to 37 CFR 1.25.

☐ Applicant(s) submit herewith Form PTO 1449. All the references identified herein were disclosed in Patent Application No. \_\_\_\_\_ filed \_\_\_\_\_, now U. S. Patent No. \_\_\_\_\_, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

**EXPRESS MAIL # E191651793143**  
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit: 10/17/01

Typed Name: CAROL MARSTALLER

Signature: *Carol Marstaller*

Respectfully submitted,

BARTH ET. AL.

By *[Signature]*

STEVEN R. GREENFIELD

Attorney/Agent for Applicant(s)  
Reg. No. 38,166

Date: 10/17/01

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10003813-1

SERIAL NO.

APPLICANT

BARTH ET. AL.

FILING DATE

10/17/01

GROUP

J1040 U.S. PTO  
09/28/04

10/17/01

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME
	1A	5,500,071	3/19/96	KALTENBACH ET AL.
	1B	5,571,410	11/05/96	SWEDBERG ET AL.
	1C	5,641,400	6/24/97	KALTENBACH ET AL.
	1D	0,036,350	10/26/99	REISSUE: SWEDBERG ET AL.
	1E	5,835,646	11/10/98	YOSHIMURA ET AL.
	1F	5,902,435	5/11/99	MEIS ET AL.
	1G	5,981,064	11/9/99	BURACK ET AL.
	1H	6,005,991	12/21/99	KNASEL
	1I	6,069,991	5/30/00	HIBBS-BRENNER ET AL.
	1J	6,088,498	7/11/00	HIBBS-BRENNER ET AL.
	1K	6,091,874	7/18/00	HIGASHI ET AL.

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
	1L	EP1085355A2	04.09.00	EMMERICH ET AL.	X	
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	FJELSTAD, JOSEPH C., "AN INDEPENDENT JOURNAL DEDICATED TO THE ADVANCEMENT OF CHIP-SCALE ELECTRONICS-TUTORIAL: AN OVERVIEW OF FLEXIBLE PRINTED CIRCUIT TECHNOLOGY", CHIPSCALE REVIEW.COM, JAN.-FEB. 2001
	1R	VENKAT, SRI, "LASER PROCESSING OF FLEX", PC FAB.COM, FEB. 2001.
	1S	LEE, XAH, "SPECIAL PLANE CURVES: ARCHIMEDEAN SPIRAL", XAHLEE.ORG, COPYRIGHT 1995-97.

EXAMINER

DATE CONSIDERED

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO. <b>10003813-1</b>	SERIAL NO.
	APPLICANT <b>BARTH ET. AL.</b>	
	FILING DATE <b>10/17/01</b>	GROUP

**REFERENCE DESIGNATION**

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME
	1A	6,097,871	8/01/00	DE DOBBELAERE ET AL.
	1B	3,950,846	4/20/76	JOHNSON
	1C	3,968,336	7/6/76	JOHNSON
	1D	3,979,568	9/7/76	JOHNSON
	1E	4,066,860	1/3/78	KAWASAKI
	1F	4,919,403	4/24/90	BARTHOLOMEW
	1G	5,082,997	1/21/92	VIALY
	1H	5,525,845	6/11/96	BEALE ET AL.
	1I	5,555,972	9/17/96	SCHWAB
	1J	5,673,785	10/7/97	SCHLAAK ET AL.
	1K	4,350,412	9/21/82	STEENBLIK ET AL.

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
	1L					
	1M					
	1N					
	1O					
	1P					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

	1Q	FJELSTAD, JOSEPH, "FLEXIBLE CIRCUITRY-TECHNOLOGY BACKGROUND AND IMPORTANT FUNDAMENTAL ISSUES", WWW.TESSERA.COM/LIBRARY.CFM, 2001
	1R	
	1S	

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**U.S. PATENT DOCUMENTS**

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	1A	4,928,206	5/22/90	PORTER ET AL.
	1B	4,961,709	10/9/90	NOSCHESE
	1C	5,197,889	3/30/93	RIZZO ET AL.
	1D	5,452,182	9/19/95	EICHELBERGER ET AL.
	1E	5,645,702	7/8/97	WITT ET AL.
	1F	5,658,413	8/19/97	KALTENBACH ET AL.
	1G	5,804,022	9/8/98	KALTENBACH ET AL.
	1H	4,587,719	5/13/86	BARTH
	1I	5,812,378	9/22/98	FJELSTAD ET AL.
	1J	5,859,472	1/12/99	DiSTEFANO ET AL.
	1K	5,882,571	3/16/99	KALTENBACH ET AL.

**FOREIGN PATENT DOCUMENTS**

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					YES	NO
	1L					
	1M					
	1N					
	1O					
	1P					

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	1R	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME
	1A	5,900,674	5/4/99	WOJNAROWSKI ET AL.
	1B	5,938,452	8/17/99	WOJNAROWSKI ET AL.
	1C	5,973,394	10/26/99	SLOCUM ET AL.
	1D	6,029,344	2/29/00	KHANDROS ET AL.
	1E	6,033,433	3/07/00	EHR ET AL.
	1F	6,033,628	3/07/00	KALTENBACH ET AL.
	1G	6,046,410	4/04/00	WOJNAROWSKI ET AL.
	1H	6,092,280	7/25/00	WOJNAROWSKI ET AL.
	1I	6,093,362	7/25/00	KALTENBACH ET AL.
	1J	6,194,900	2/27/01	FREEMAN ET AL.
	1K	0,034,084	9/29/92	REISSUE: NOSCHES

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
	1L					
	1M					
	1N					
	1O					
	1P					

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	1R	
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